

WHAT IS CLAIMED IS:

1. A radar having a mixer that mixes a transmitted signal and a received signal, and an A/D converter that analog-to-digital converts an output signal of said mixer, comprising:

a removing unit that removes a dc voltage component by subtracting a predetermined voltage value from output data of said A/D converter; and

10 an analyzing unit that Fourier-transforms data, which has the dc voltage component removed therefrom by said removing unit, so as to analyze the data.

15 2. The radar according to claim 1, further comprising a bias voltage application circuit as a stage preceding said A/D converter, wherein:

said removing unit adopts a measurement of a voltage at a dc voltage source, which is employed by said bias voltage application circuit, as the removal voltage value.

20 3. The radar according to claim 2, wherein said voltage measurement is obtained by measuring the voltage at said dc voltage source with no signal received by said bias voltage application circuit.

25 4. The radar according to claim 3, further comprising a switch that discontinues conduction of a signal so as to establish a state in which no signal is received by said bias voltage application circuit.

30 5. The radar according to claim 1, wherein said removing unit calculates the removal voltage value on the basis of the output data of said A/D converter.

6. The radar according to claim 5, wherein said removing unit calculates the removal voltage value as an average of output data items of said A/D converter.

35 7. The radar according to claim 6, wherein said removing unit applies a window function to the data items that have the average subtracted therefrom, calculates a second average by averaging the data items that have the

window function applied thereto, and subtracts the second average from the data items that have the window function applied thereto.

5       8. The radar according to claim 1, wherein digital filtering is performed on the data treated by said removing unit in order to further remove a low-frequency component.

10      9. The radar according to claim 8, wherein digital filtering is performed on the data that has the window function applied thereto.